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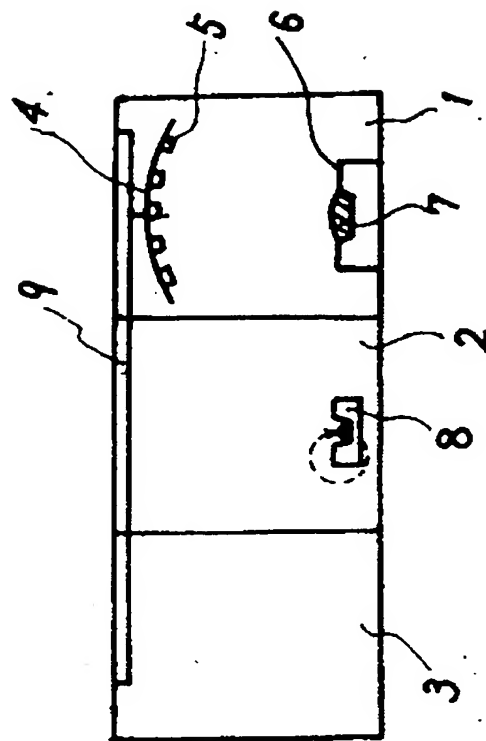
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APPLICANT : SEIKO EPSON CORP;

INVENTOR : EGAWA MASARU;

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TITLE : COLOR COATED LENS



ABSTRACT : PURPOSE: To obtain a colored lens with an antireflection coating which is low in cost and has less variance in color by dyeing the lens by a vapor phase dyeing method.

CONSTITUTION: The lens is molded by using a transparent resin such as allyl diglycol carbonate resin, methyl methacrylate resin, or polycarbonate resin. The easy tendency to sublimation of those of less polar groups out of disperse system dyes is utilized. A low polar disperse dye is placed on the evaporation tray 6 of a vacuum depositing machine, and the 1st vessel 1 is evacuated to a 10^{-3} mmHg vacuum. Cleaned lenses 5 are heated to 80°C by the heater above a dome 4. Next, the evaporation tray is heated to 150°C and while the dome is being rotated, the dye 7 is sublimated to dye the dome. The dome is moved to the 2nd vessel which is evacuated to a 10^{-5} mmHg vacuum, and an antireflection layer of SiO_2 , ZrO_2 or the like is vapor-deposited by an electron beam evaporation (or resistance heating) method. Thereafter, it is transferred into the 3rd vessel where the atmospheric pressure is restored.

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